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 TITLE: Cloning of cDNA for human Bradeion proteins  
 that induces apoptosis  
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 PATENT ASSIGNEE(S): Agency of Industrial Sciences and Technology, Japan  
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JP 3141107	B2	20010305		
US 6423504	B1	20020723	US 1999-440936	19991116
JP 2001161384	A	20010619	JP 2000-308650	20001010
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US 2003099970	A1	20030529	US 2002-190555	20020709
US 7087406	B2	20060808		
US 2003113753	A1	20030619	US 2002-191810	20020710
US 6902898	B2	20050607		
US 2006052584	A1	20060309	US 2005-224297	20050913
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AB The cDNA encoding Bradeion protein  $\alpha$  and  $\beta$  are isolated from a human brain cDNA library. The Kyte-Doolittle hydropathy anal. showed that the structure of these membrane proteins are similar to that of interleukin receptors. The proteins can induce apoptosis in the cultured un-differentiated human nerve cells. The process of the induced apoptosis includes the formation of agglutinated substances that accumulate in the mitochondria area in 24 h. The antibodies to the proteins or the probes derived from the encoding cDNA can be used for the diagnosis of cancers such as human colon cancer or skin cancer.

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